

APRIL/MAY 2024

**23PCS22 — ADVANCED OPERATING
SYSTEMS**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define bootstrap program.
2. What are goals of operation systems?
3. List the issues in distributed operating System.
4. Illustrate the Deadlock handling strategies.
5. Give examples of real time operating system.
6. Classify the real time operating system.
7. List the Handheld Operating Systems.
8. What is Android?
9. Define Linux.
10. Categorize of process Scheduling.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Discuss the Clustered Systems.
Or
(b) Analyse the FCFS scheduling.
12. (a) Identify the issues in deadlock detection.
Or
(b) Categorize the various design issues in distributed system Explain.
13. (a) Discuss the applications of Real time System.
Or
(b) Analyse the characteristics of real time systems.
14. (a) Construct the Android application framework.
Or
(b) Analyse Palm OS.
15. (a) Examine the purpose of scheduling algorithms.
Or
(b) Classify the memory management techniques.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the banker's algorithm for deadlock avoidance.
17. Discuss the various types of file access models in distributed environment.
18. Explain the real time task scheduling.
19. Explain the Android architecture with neat diagram.
20. Elaborate the various types of file access methods.
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